

INDUSTRIAL AUTOMATION PRODUCT

ADV161-P50 S2

64-Channel Isolated Digital Input Module

Yokogawa ADV161-P50 S2 is a 64-channel 24 V DC isolated digital input module for CENTUM field control stations. The -P execution supports pushbutton-input operation through the documented connector and cable arrangement.

IDENTITY	VERIFIED VALUE
Manufacturer	Yokogawa
System family	Yokogawa CENTUM VP field control station
Part number	ADV161-P50 S2
Product role	Acquires sixty-four isolated digital inputs
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.

APTER POWER SALES TEAM

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ADV161-P50 S2

Technical Specifications

Technical values below are limited to the named Yokogawa product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Input channels	64	Input ON	20-26.4 V DC
Input groups	2 groups of 32	Input OFF	5.0 V DC maximum
Nominal input	24 V DC	Input current	2.5 mA +/-20% per channel
Isolation	Isolated channels	Field connector	MIL connector / AKB337 cable

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Yokogawa CENTUM VP field control station
Primary system role	Acquires sixty-four isolated digital inputs
Connection boundary	Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.
Controlled acceptance duty	Process interlock acquisition

ENGINEERING BOUNDARY

Confirm Yokogawa ADV161-P50 S2, CENTUM host, sixty-four-point map, two groups, 24 V DC field supply, -P pushbutton execution, MIL connectors, AKB337 cables, commons, grounding, I/O definition and point-test results before commissioning.

Pre-Installation Checks

1	Confirm Yokogawa ADV161-P50 S2 and the assigned CENTUM FCS slot.	2	Place the process and affected interlocks in the approved maintenance state.
3	Isolate both field groups and apply ESD controls.	4	Record all sixty-four channel assignments, commons, MIL connectors and AKB337 cables.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	ADV161-P50 S2
Installed host	Yokogawa CENTUM VP field control station
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Yokogawa ADV161-P50 S2 is a 64-channel 24 V DC isolated digital input module for CENTUM field control stations. The -P execution supports pushbutton-input operation through the documented connector and cable arrangement.

FUNCTION 1
Acquires sixty-four isolated digital inputs

FUNCTION 2
Separates the inputs into two documented groups

FUNCTION 3
Supports the selected pushbutton-input execution

FUNCTION 4
Integrates with the CENTUM field control station

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Yokogawa CENTUM VP field control station
2	2 groups of 32
3	Process interlock acquisition
4	Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Yokogawa CENTUM VP field control station
Interface role	Acquires sixty-four isolated digital inputs
Field / power context	The module connects field signals through the documented MIL connector and AKB337 cable arrangement. Commissioning verifies the slot, two input groups, field voltage, pushbutton-input execution, channel map and CENTUM diagnostics.
Commissioning evidence	Simulate each assigned input and confirm the intended CENTUM logic response.

Installation and Connection Checks

1Confirm the 24 V DC field supply and pushbutton-input configuration.

2Restore the approved FCS hardware and I/O definition.

3Review module recognition, group status and channel diagnostics.

4Simulate each assigned input and confirm the intended CENTUM logic response.

MANUFACTURER SOURCE RECORD

Digital Input Modules ADV151 and ADV161 General Specifications
Yokogawa GS 33J60F70-01EN

Applications and Engineering Context

Process interlock acquisition

Collects documented equipment and permissive states for CENTUM logic.

Pushbutton station inputs

Receives maintained or momentary field commands through the selected execution.

Alarm contact monitoring

Transfers discrete field alarms into the approved FCS I/O map.

Digital input modernization

Restores a 64-point module position with complete point-test evidence.

TECHNICAL NOTE

Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	ADV161-P50 S2 recorded
Host / carrier	Yokogawa CENTUM VP field control station
Physical interface	Acquires sixty-four isolated digital inputs
Configuration	Review module recognition, group status and channel diagnostics.
Functional proof	Simulate each assigned input and confirm the intended CENTUM logic response.

IMPORTANT NOTICE

Confirm Yokogawa ADV161-P50 S2, CENTUM host, sixty-four-point map, two groups, 24 V DC field supply, -P pushbutton execution, MIL connectors, AKB337 cables, commons, grounding, I/O definition and point-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	ADV161-P50 S2
Approved role	Process interlock acquisition
Final validation	Simulate each assigned input and confirm the intended CENTUM logic response.

Engineering Precautions

1	Confirm Yokogawa ADV161-P50 S2 and the assigned CENTUM FCS slot.	2	Place the process and affected interlocks in the approved maintenance state.
3	Isolate both field groups and apply ESD controls.	4	Record all sixty-four channel assignments, commons, MIL connectors and AKB337 cables.
5	Confirm the 24 V DC field supply and pushbutton-input configuration.	6	Restore the approved FCS hardware and I/O definition.
7	Review module recognition, group status and channel diagnostics.	8	Simulate each assigned input and confirm the intended CENTUM logic response.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Yokogawa SDV161-P50-S2	Related Apter Power product	View Yokogawa SDV161-P50-S2 page
Yokogawa ADV859-P00-S1	Related Apter Power product	View Yokogawa ADV859-P00-S1 page
Yokogawa ADV869-P00-S1	Related Apter Power product	View Yokogawa ADV869-P00-S1 page
Yokogawa NF501-W15-S2	Related Apter Power product	View Yokogawa NF501-W15-S2 page
Yokogawa CP451-10-S2	Related Apter Power product	View Yokogawa CP451-10-S2 page
Yokogawa EB401-50-S1-778820	Related Apter Power product	View Yokogawa EB401-50-S1-778820 page
Yokogawa ALF111-S50-S1	Related Apter Power product	View Yokogawa ALF111-S50-S1 page
Yokogawa ET5-B	Related Apter Power product	View Yokogawa ET5-B page

MANUFACTURER SOURCE RECORD

Digital Input Modules ADV151 and ADV161 General Specifications
Yokogawa GS 33J60F70-01EN

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